

INERTIAL POINTER FOR ELECTRONIC DISPLAYS

ABSTRACT

An inertial pointing device and method to determine position coordinates from sensing linear acceleration relative to space (inertia). One or more acceleration sensors detect the acceleration of the pointer in the X, Y, and/or Z directions, respectively. The acceleration of the pointer in each direction is then converted into speed and position at an appropriate integration rate, to determine the coordinates of the pointer on an electronic display. The inertial pointer can be used as a computer mouse, a pointing device for presentation displays, or as a remote control for TV sets.